Topic: N132-086

Candent Technologies Incorporated

High Power Density, High Efficiency Advanced Generator for DEW Systems

Candent Technologies, a young, dynamic, lean engineering company focused on design, development, fabrication and testing of advanced propulsion and power systems using gas turbines and small heavy fuel reciprocating engines, is under SBIR contract to the Joint Non-Lethal Weapon Directorate (JNLWD) to develop a compact, lightweight, efficient, scalable 250kW turbine driven prime power source for the Active Denial Technology (ADT) Non-Lethal Weapon (NLW) directed energy systems. No technology invention is required, which minimizes program risk, while enabling achievement of the SWaP requirements: The system has 5% the volume, 14% the weight, and matching fuel consumption of an equivalent diesel system, and is also usable for High Energy Lasers (HEL), mobile electric power, micro grid power, naval vessel auxiliary power, and hybrid electric drive systems.

Technology Category Alignment:

Aircraft Propulsion, Power and Thermal Power Generation/Energy Conversion Ground and Sea Platforms High Energy Lasers (HEL) Propulsion

Contact:

Hernando Munevar hmunevar@candent-technologies.com (317) 336-4478 http://candent-technologies.com SYSCOM: MARCOR Contract: M67854-15-C-6502 Corporate Brochure: https://navystp.com/vtm/open_file?type=brochure&id=M67854-15-C-6502

Department of the Navy SBIR/STTR Transition Program

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WHO